

Notice of Allowability

Application No.

10/815,698

Examiner

Bumsuk Won

Applicant(s)

KIM ET AL.

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 6/22/2006.
2. ☒ The allowed claim(s) is/are 1-3, 5-13, 15, 18 and 21-30.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Response to Amendment

The amendment filed on 6/22/2006 has been entered.

Allowable Subject Matter

Claims 1-3, 5-13, 15, 18, and 21-30 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding the independent claims 1 and 12, the prior art of record does not teach or suggest the invention of a plasma display device having thermoelectric semiconductor being arranged on one of the interior and the exterior surface of back cover, the back cover having exterior surface that faces away from chassis base, the thermoelectric semiconductor devices having a heat absorbing surface that faces the chassis base and a heat emitting surface that faces an exterior side of the back cover, along with other claimed limitations. Claims 2, 3, 5-11, and 15 are allowed due to claim dependency.

Regarding the independent claim 13, the prior art of record does not teach or suggest the invention of a plasma display device comprising, an insulating cover arranged over heat emitting surface of thermoelectric semiconductor devices, along with other claimed limitations.

Regarding the independent claim 18, the prior art of record does not teach or suggest the invention of a plasma display device having thermoelectric semiconductor having a p-type and n-type semiconductor material, and metal strips wherein the materials and the strips being electrically connected to each other inside opening in back cover that covers and faces back surface of the plasma display panel, along with other claimed limitations. Claims 21-26 are allowed due to claim dependency.

Regarding the independent claim 27, the prior art of record does not teach or suggest the invention of a plasma display device having thermoelectric semiconductor being arranged between back cover and chassis base, the thermoelectric semiconductor devices having a heat absorbing surface that faces the chassis base and a heat emitting surface that faces an exterior side of the back cover, along with other claimed limitations. Claims 28-30 are allowed due to claim dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Oh (US 6,410,841) discloses a plasma display device having Thomson effect thermoelectric device attached to chassis base, and the thermoelectric device is driven by controller inside back cover. However, Oh fails to disclose the claimed position of the thermoelectric device.

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bumsuk Won whose telephone number is 571-272-2713. The examiner can normally be reached on Monday through Friday, 8:00 am to 5:00 pm.


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Bumsuk Won
Patent Examiner


JOSEPH WILLIAMS
PRIMARY EXAMINER